

Pork and animal source food consumption and food safety risk perception in Phnom Penh, Cambodia

Chhay Ty, Livestock Development for Community Livelihood (LDC)
Safe Food, Fair Food for Cambodia project final meeting
21-22 June 2021



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Introduction

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INTRODUCTION

- ASF: provide proteins and essential nutrient elements to people
- Pork: one of the most important ASF in Cambodia
- Limited studies on risks related to pork consumption

- ❑ To analyse the patterns of pork and other ASF consumption
- ❑ To understand consumers' perception of food safety and how it relates to food purchasing decisions and consumption



MATERIALS AND METHODS

Site selection

- Including criteria:
 - Administrative districts belong to Phnom Penh
- Excluding criteria:
 - Density <1,500 and >30,000 people/km²
 - Primarily high-income households, high official residential areas or business centers

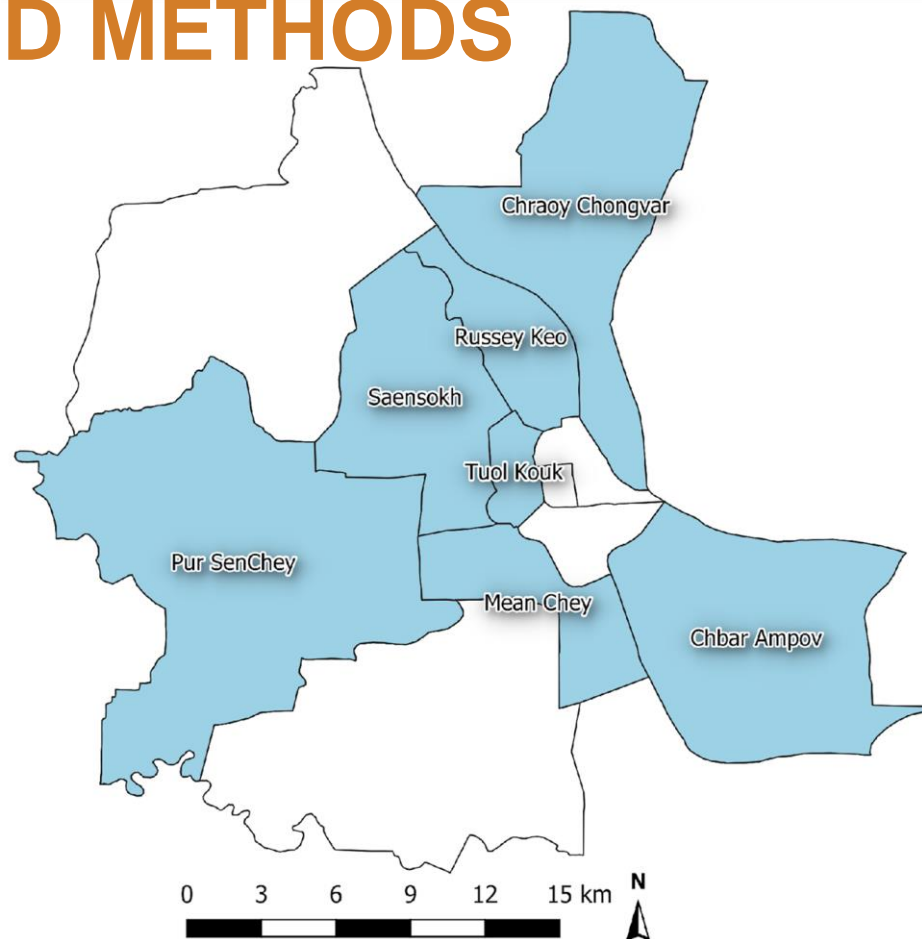


Figure 1: Study sites

Study design

- **Household questionnaire:** 202 randomly selected household
- **Focus group discussion:** 7 FGDs, one in each district





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RESULTS





Demographic information

Characteristic		Quantitative Results (n=202)	Qualitative Results (n=47)
Gender	Male	18 (8.9)	3 (6.4)
	Female	184 (91.1)	44 (93.6)
Age group	15 – 30 years old	30 (14.9)	9 (19.1)
	31 – 40 years old	79 (39.1)	18 (38.3)
	41 – 50 years old	53 (26.2)	4 (8.5)
	51 – 60 years old	25 (12.4)	11 (23.4)
	>60 years old	15 (7.4)	5 (10.6)
Education	Never attended school	55 (27.3)	12 (25.5)
	Primary school	82 (40.6)	16 (34.0)
	Secondary school	40 (19.8)	11 (23.4)
	Vocational/technical school	15 (7.4)	5 (10.6)
	Technical college or higher	10 (5.0)	3 (6.4)
Occupation	Employed (farmer, officer, private business)	151 (74.8)	13 (27.7)
	Unemployed	49 (24.3)	0 (0)
	Other (student, housewife)	2 (1.0)	34 (72.3)
Area	Urban/ Peri-urban	104 (51.5)	35 (74.5)
	Rural	98 (48.5)	12 (25.5)



Pork purchasing and preparation

- Pork was more widely consumed than other ASF
- 84.7% purchased the pork mainly in the morning
- Raw pork was purchased mainly in wet market (45.9%), street vendor (28.6%) and mobile vendor (21.1%).
- Reasons to consider buying pork: cleaning, packaging and nutrition/value
- Storing pork: room temperature



Pork processing and consumption

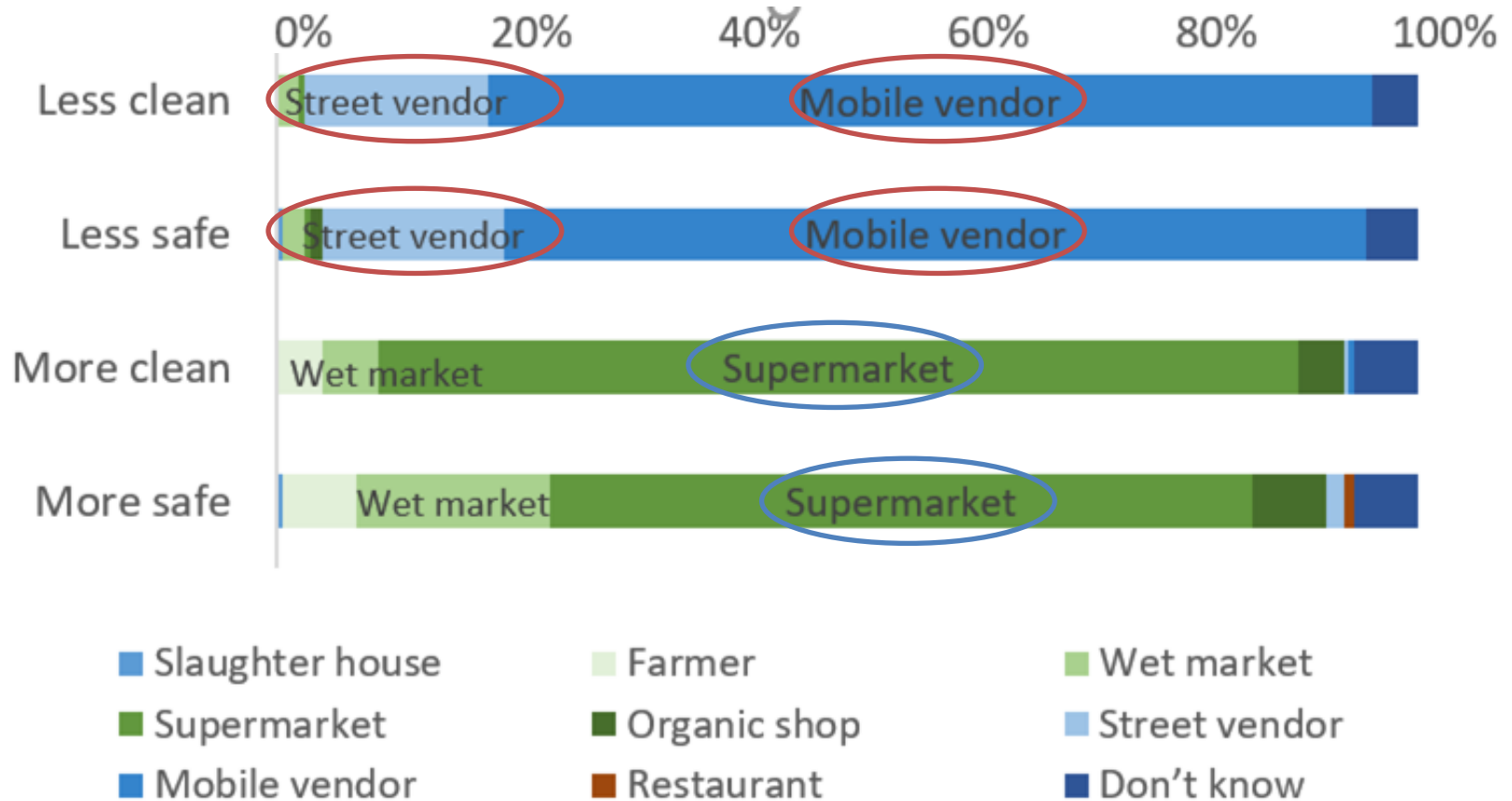
- Respondents used same knife (74.3%) and cutting board (69.8%) when preparing pork and other foods such as vegetables.
- Most frequently consumed pork meat: fried, boiled and dried
- Raw and fermented pork: less frequently



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Perceptions on safe/clean pork sources

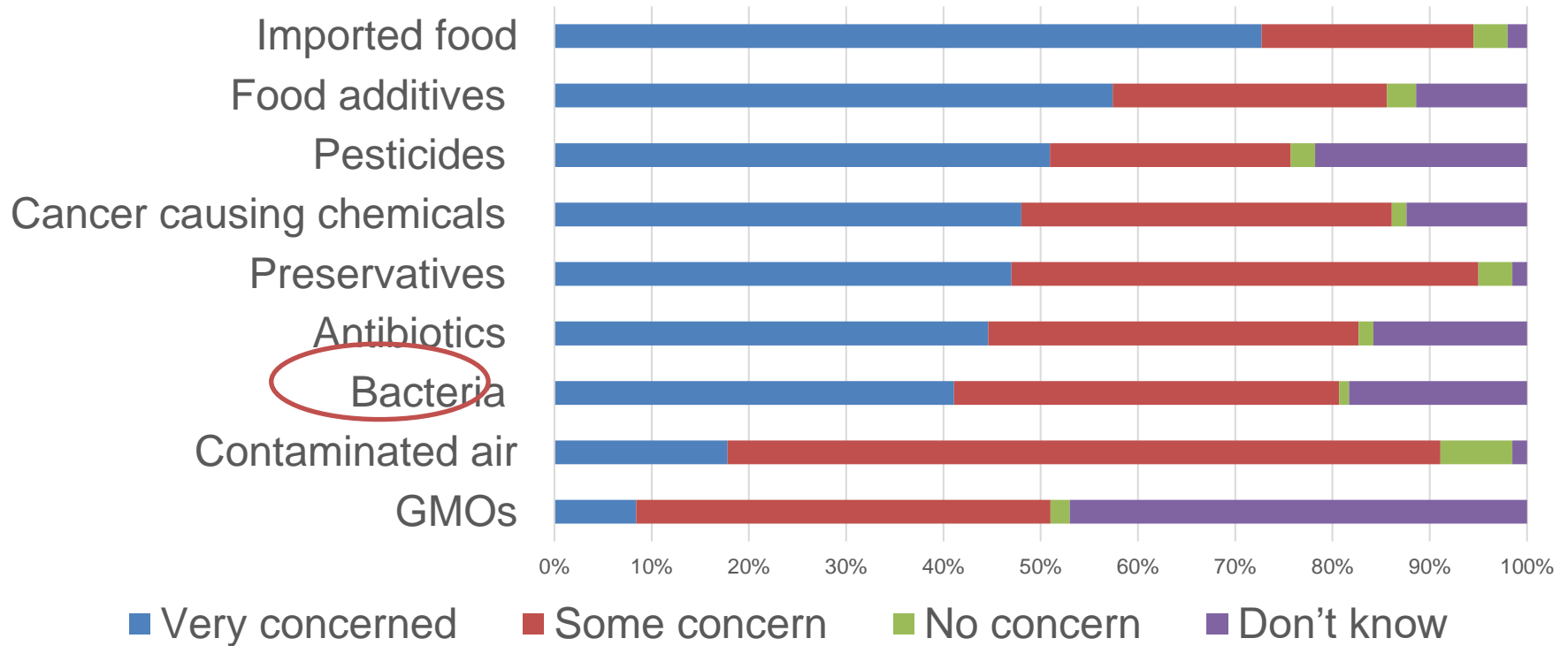




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Food safety concern

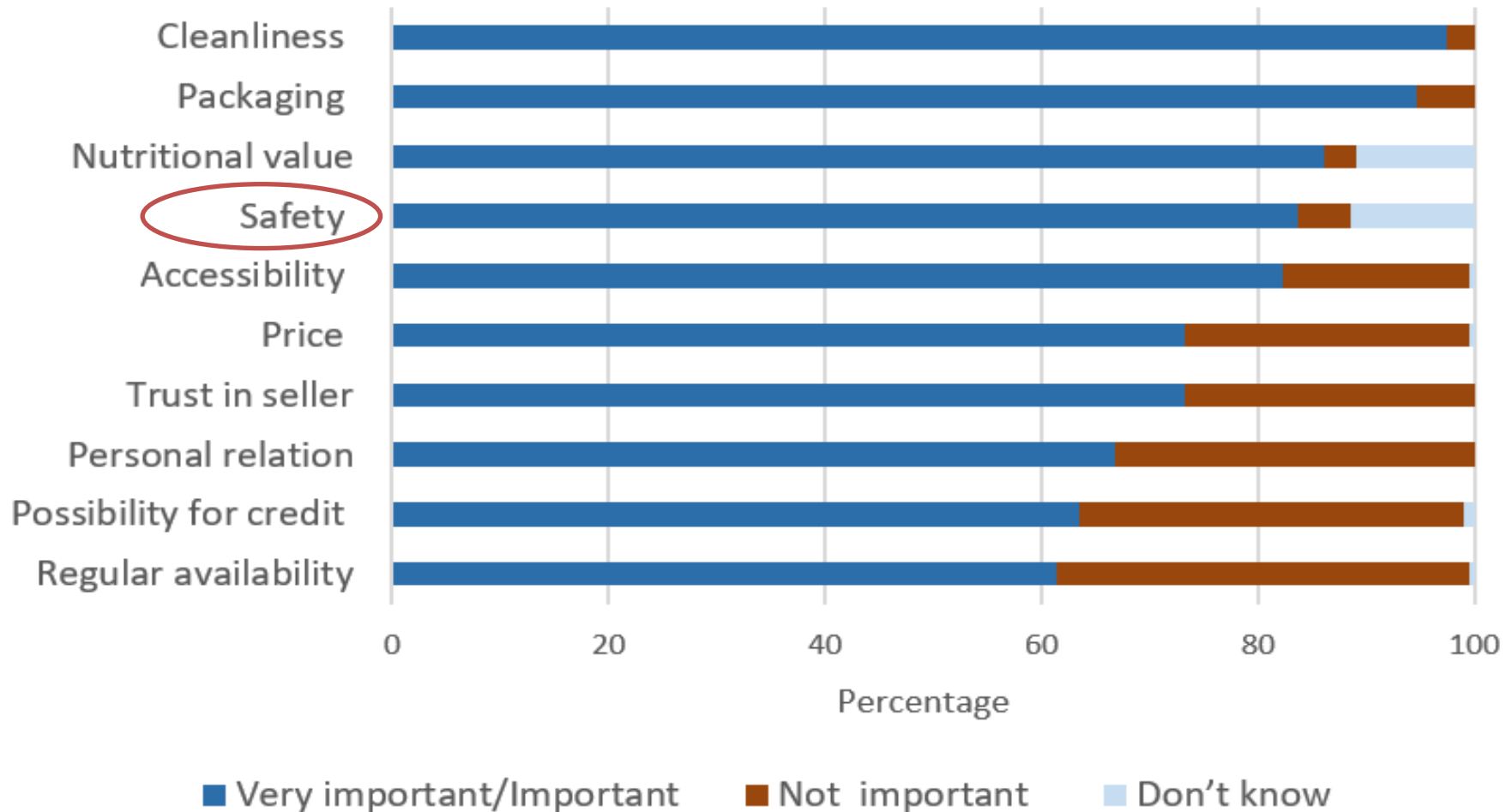




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People's consideration when buying pork



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DISCUSSION & CONCLUSIONS

- Pork is the most consumed meats.
- Food preference was more driven by cleanness and accessibility than by food safety.
- Mobile and street vendors: available and easy to access ☐ main sources of purchasing pork even though they were considered as less clean and less safe
- ☐ Link of food environment (food availability, accessibility and convenience) and food safety
- People were mainly concerned about food additive, pesticides, chemicals and preservatives while most of the known burden of foodborne diseases is biological hazards.



DISCUSSION & CONCLUSIONS

- Inappropriate practice: raw pork consumption + using same knife and cutting board while cooking ☐ increase the risks of foodborne disease.
- The findings are useful for food safety risk assessment & propose risk management measure (education campaign) to raise awareness and motivate action to improve food safety in the community.

Thank you for your attention



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